

1. A process for making an insulating glass assembly, the process comprising:
applying a sealant composition to a surface of a spacer;
contacting the sealant composition with a glass pane; and
5 applying pressure on the assembly at an ambient temperature of from about 15°C to about 60°C to bond the glass pane to the spacer through the sealant composition.
2. The process of claim 1, wherein the pressure applied is from about 2 psi to
10 about 50 psi.
3. The process of claim 1, further comprising
applying a sealant composition to a second surface of the spacer, contacting
the sealant composition on the second surface of the spacer with a second pane of
15 glass, and
applying pressure on the assembly at an ambient temperature of from about 15°C to about 60°C to bond the second glass pane to the spacer through the sealant composition.
- 20 4. The process of claim 3, wherein the pressure applied is from about 2 psi to about 50 psi.
5. The process of claim 1, further comprising applying the sealant
composition to at least two opposite surfaces of the spacer simultaneously.
25
6. The process of claim 3, further comprising applying the pressure to the first
pane of glass and the second pane of glass simultaneously.
7. The process of claim 1, wherein applying the sealant composition
30 comprises dispensing the sealant composition at a temperature greater than 90°C.

8. The process of claim 1, wherein applying the sealant composition comprises dispensing the sealant composition at a temperature from about 50°C to about 150°C.

5 9. The process of claim 1, wherein the sealant exhibits a needle penetration of from about 3.5 mm to less than 8.0 mm prior to cure.

10 10. The process of claim 1, wherein the pressure is applied by a press selected from the group consisting of a platen press, a roller press or a combination thereof.

11. The process of claim 1, wherein the pressure is applied while the assembly is in a vertical position.

15 12. The process of claim 1, wherein the sealant comprises
silane-functional amorphous poly- α -olefin;
butyl rubber;
polyisobutylene; and
tackifying agent.

20 13. The process of claim 12, wherein the sealant further comprises amorphous poly- α -olefin.

14. The process of claim 1, wherein the spacer is metallic.

25 15. The process of claim 1, wherein the spacer comprises polymer.

16. The process of claim 1, wherein the spacer extends from a sash frame and is integral with the sash frame.

30 17. A process for preparing an insulating glass unit according to the process of claim 1.

18. The process of claim 1, further comprising
applying a second sealant composition to a frame;
contacting the second sealant composition with the insulating glass
5 assembly prepared in claim 1, and
applying pressure to the frame and assembly to bond the frame to the
assembly through the second sealant composition.
19. The process of claim 18, wherein the second sealant composition comprises
10 silane-functional amorphous poly- α -olefin;
butyl rubber;
polyisobutylene; and
tackifying agent,
the composition exhibiting a needle penetration from about 3.5 mm
15 to less than 8.0 mm.
20. The process of claim 1, wherein the insulating glass assembly passes the
ASTM E774/773 Class C performance requirement.
- 20 21. The process of claim 1, wherein the insulating glass assembly passes the
ASTM E774/773 Class CB performance requirement.
22. The process of claim 1, wherein the insulating glass assembly passes the
ASTM E774/773 Class CBA performance requirement.
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23. A moisture curable sealant composition comprising:
silane-functional amorphous poly- α -olefin;
butyl rubber;
polyisobutylene; and
30 tackifying agent,

the composition exhibiting a needle penetration from about 3.5 mm to less than 8.0 mm.

24. The sealant composition of claim 23, further comprising amorphous poly-
5 α -olefin.

25. The sealant composition of claim 23, wherein the sealant composition exhibits a moisture vapor transmission rate no greater than 1 g/m²/day.

10 26. An insulating glass assembly comprising:
an insulating glass unit comprising
a first glass pane,
a second glass pane,
a spacer, and
15 a first sealant composition, the first glass pane being bonded to a first surface of the spacer through the sealant composition, the second glass pane being bonded to a second surface of the spacer through the first sealant composition;
a frame; and
20 a second sealant composition, the insulating glass unit being bonded to the frame through the second sealant composition, the second sealant composition comprising the cured sealant composition of claim 23.

27. The insulating glass assembly of claim 26, wherein the second sealant
25 composition exhibits a needle penetration from about 3.5 mm to less than 8.0 mm.

28. The insulating glass assembly of claim 26, wherein the first sealant composition comprises the cured sealant of claim 23.

30 29. The insulating glass assembly of claim 26, wherein the insulating glass assembly passes at least one of the ASTM E774/773 Class C performance requirement,

the ASTM E774/773 Class CB performance requirement, and the ASTM E774/773 Class CBA performance requirement.

5 30. An insulating glass assembly comprising
 a first glass pane,
 a second glass pane,
 a spacer, and
 a sealant composition disposed between the first pane of glass and
 the spacer and the second pane of glass and the spacer,
10 the sealant composition comprising the cured sealant composition of claim
23.

 31. A process for making an insulating glass assembly, the process comprising:
 applying a sealant composition on a first surface of a spacer and a second
15 surface of the spacer;
 contacting the sealant composition on the first surface of the spacer with a
first pane of glass;
 contacting the sealant composition on the second surface of the spacer with
a second pane of glass;
20 applying pressure on the assembly at an ambient temperature of from about
15°C to about 60°C to bond the first glass pane to the spacer through the sealant;
and
 applying pressure on the assembly at an ambient temperature of from about
15°C to about 60°C to bond the second glass pane to the spacer through the
25 sealant,
 the insulating glass assembly passing ASTM E774/773 Class C
performance requirement.

30 32. The process of claim 31, wherein the insulating glass assembly passes at
least one of ASTM E774/773 Class CB performance requirement and ASTM E774/773
Class CBA performance requirement.

33. The process of claim 31, wherein the insulating glass assembly, when tested according to ASTM E1887-97, is free of visible fog.

5 34. The process of claim 31 wherein the pressure applied to the first bond line between the first pane of glass and the spacer is from about 2 psi to about 100 psi and the pressure applied to the second bond line between the second pane of glass and the spacer is from about 2 psi to about 100 psi.

10 35. The process of claim 34, wherein the pressure is applied simultaneously to the first bond line and the second bond line.